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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

22204

7590

12/03/2002

NIXON PEABODY, LLP 8180 GREENSBORO DRIVE SUITE 800 MCLEAN, VA 22102 EXAMINER

BERRY, RENEE R

ART UNIT CLASS-SUBCLASS

438-784000

2818
DATE MAILED: 12/03/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/466,828	12/20/1999	SHUNPEI YAMAZAKI	0756-2077	1635

TITLE OF INVENTION: INSULATING FILM AND METHOD OF PRODUCING SEMICONDUCTOR DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$0	\$0	\$0	03/03/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

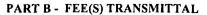
B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

(703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as

maintenance fee notification	1S.	vise in Block I, by (a) s	pecifying a new c	orrespondence add	lress; and/or (b) indicating a sepa	arate "FEE ADDRESS" fo	
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 22204 7590 12/03/2002			Dioca 1)	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
NIXON PEABO	DY, LLP			accompanying formal drawing,	papers. Each additional paper, s must have its own certificate of n	uch as an assignment or nailing or transmission.	
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SUITE 800				I hereby certify	that this Fee(s) Transmittal is	being denocited with the	
MCLEAN, VA 221	102			envelope addres	ostal Service with sufficient postal sed to the Box Issue Fee address	ge for first class mail in an above, or being facsimile	
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APPLICATION NO.	FILING DATE	FIR	ST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/466,828	12/20/1999		IUNPEI YAMAZ.		0756-2077	1635	
TITLE OF INVENTION: IN	SULATING FILM AND	METHOD OF PRODU	CING SEMICON	DUCTOR DEVICE	3		
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APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBL	CATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$0		\$0	\$0	03/03/2003	
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☐ "Fee Address" indication PTO/SB/47; Rev 03-02 of Number is required.	on (or "Fee Address" Indi r more recent) attached. I	cation form Use of a Customer	registered paten	t attorneys or ager e will be printed.			
3. ASSIGNEE NAME AND	RESIDENCE DATA TO	BE PRINTED ON THE	PATENT (print o	r tyne)			
PLEASE NOTE: Unless an	assignee is identified be	elow no accionaa data w	ill appear on the m	stant Inclusion of	assignee data is only appropriate	when an accionment has	
been previously submitted t (A) NAME OF ASSIGNEE	o me oar to or is being	submitted under separate	cover. Completio	n of this form is No	Of a substitute for filing an assign	iment.	
(A) NAME OF ASSIGNEE		(B) KE	SIDENCE: (CITY	and STATE OR O	COUNTRY)	•	
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a. The following fee(s) are e			ment of Fee(s):	Individual	corporation or other private gro	up entity U government	
☐ Issue Fee		-	• •	of the fee(s) is enc	losed		
□ Publication Fee				Form PTO-2038			
☐ Advance Order - # of Co	pies	☐ The	Commissioner is h	ereby authorized b	y charge the required fee(s), or cre	edit any overpayment, to	
Commissiones for Datauta is -		Deposi	Account Number		_(enclose an extra copy of this to	orm).	
Commissioner for Patents is r	equested to apply the iss	ue ree and Publication Fe	e (if any) or to re-	apply any previou	sly paid issue fee to the applicatio	n identified above.	
Authorized Signature)		(Date)		 			
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NOTE; The Issue Fee and other than the applicant; a interest as shown by the reco	Publication Fee (if requ registered attorney or a ords of the United States	ired) will not be accepted agent; or the assignee of Patent and Trademark Of	ed from anyone other party in fice.				
This collection of informational obtain or retain a benefit by application. Confidentiality estimated to take 12 minutes completed application form case. Any comments on the suggestions for reducing the Patent and Trademark Office NOT SEND FEES OR Commissioner for Patents, W	on is required by 37 CF y the public which is to	R 1.311. The information file (and by the USPTO	n is required to to process) an				
Under the Paperwork Reducollection of information unl	uction Act of 1995, no	persons are required to	respond to a				



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09/466,828 12/20/1999		12/20/1999	SHUNPEI YAMAZAKI	0756-2077	1635	
22204	22204 7590 12/03/2002			EXAMINER		
NIXON PEAR				BERRY, RE	NEE R	
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MCLEAN, VA UNITED STAT				2818		
ONITED STATES				DATE MAILED: 12/03/2002		

Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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22204	7590	12/03/2002		EXAMINER	
NIXON PEAE 8180 GREENS				BERRY, RE	NEE R
SUITE 800	22102			ART UNIT	PAPER NUMBER
MCLEAN, VA UNITED STAT				2818	
				DATE MAILED: 12/03/2002	

Notice of Possible Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there may be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003: Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of any fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Notice of Allowability

Application No.

Applicant(s)

09/466,828

Yamazaki et al.

Examiner

Renee Berry

Art Unit 2818

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. X This communication is responsive to *November 5, 2002* 2. X The allowed claim(s) is/are 1-30 4. Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). a) X All b) D Some* c) None of the: 1. X Certified copies of the priority documents have been received. 2. X Certified copies of the priority documents have been received in Application No. ____08/198,054 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). *Certified copies not received: 5. Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). (a) The translation of the foreign language provisional application has been received. 6. Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 8. CORRECTED DRAWINGS must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No. (b) \square including changes required by the proposed drawing correction filed , which has been approved by the examiner. (c) \square including changes required by the attached Examiner's Amendment/Comment or in the Office action of Paper No. Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson. 9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1 Notice of References Cited (PTO-892) 2 Notice of Informal Patent Application (PTO-152) 3 Notice of Draftsperson's Patent Drawing Review (PTO-948) 4 Interview Summary (PTO-413), Paper No. _____. 5 Information Disclosure Statement(s) (PTO-1449), Paper No(s). 6 Examiner's Amendment/Comment 7 Examiner's Comment Regarding Requirement for Deposit of Biological 8 Examiner's Statement of Reasons for Allowance Material 9 Other David Nelms Supervisory Patent Examiner

Technology Center 2800

Application/Control Number: 09/466,828

Art Unit: 2818

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: There is no prior art

of record that teaches or suggests a method of making a semiconductor device by forming a gate

insulating film containing halogen at a concentration of 5 x 1020 cm-3 or less and carbon at a

concentration of 5 x 1019 cm-3 or less.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to R.R. Berry whose telephone number is (703) 305-4544.

David Nelms

Supervisory Patent Examiner Technology Center 2800 Page 2

LASUM RRB

November 30, 2002